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DESCRIPTORS: *Greases, *Lubricants, Centrifuges,
Stresses, Lubrication.

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- II. National Science Foundation, Washington, D. C.

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DESCRIPTORS: *Age, Physiology, *Proteins, Synthesis,
*Serum albumin, Animals, Enzymes, *Muscle pro-
teins, *Amino acids, *Liver, Nucleoproteins, *Phos-
phorus compounds, Lipoproteins, Tissues (Biology),
*Adenosine phosphates, *Nucleic acids, *Growth sub-
stances, Diet, Rats, *Surgery, *Hormones, Regenera-
tion, Metabolism, *Thyroxine, Blood, *Corticosteroid
agents, Nerves, Oxidation, *Pituitary hormones, *Em-
bryos, Birds.

(Biological Sciences--Biochemistry, TT, v. 10, no. 5)
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Petrov, G. S., Danilovich, A. I., and Rabinovich, A. Ya.
CATALYTIC OXIDATION OF PETROLEUM OILS.
[1962] 8p. 5 refs.

Order from OTS or SLA \$1.10

61-18141

Trans. of Khimicheskii Institut imeni L. Ya. Karpova.
[Trudy] (USSR) 1962, no. 5, p. 81-89.

DESCRIPTORS: *Petroleum, Mineral oils, *Oxidation,
Catalysis, Alkylation, Lead, Iron, Zinc, Acids,
Sulfuric acid, Cobalt catalysts.

Experiments of oxidation of vaseline oil and solar oil in
the presence of various catalysts are compared with
several non-catalytic experiments. Lead brought about
a more vigorous oxidation than iron or zinc at temper-
atures above 250°. Solar oil is much more stable
toward oxidation than vaseline oil and this is explained
by the presence in the former of resinous substances
(Chemistry--Organic, TT, v. 9, no. 11) (over)

61-18141

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Office of Technical Services

FTD (TDBIR)

6-9-2

BT68-10-2135T

Request: translation check

BT68-10-2135T

Thermal strain hardening of nickel-free structural steels

Kurmanov, M.I., Dryukova, I.N.

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DESCRIPTORS: Mineral oils, Oxidation, Catalysts,
Zinc compounds, Lead compounds, Copper compounds,
Manganese compounds, Naphthyl radicals, Salts.

Solar oil distillate treated with 18% fuming sulfuric acid
(without, however, completely removing the unsaturated)
and washed to complete elimination of alkaline salts
underwent a more extensive oxidation in the presence of
manganese naphthoate than in the presence of naph-
thenates of zinc, lead and copper under identical condi-
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